

Table A-15. Federal funds for industrial R&D performance in the U.S. and number of companies that performed federally funded R&D in the U.S., by industry and size of company, by size of federally funded R&D program: 2001

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Industry and size of company	NAICS codes	Total number of companies	Total amount <sup>1</sup> [In millions of dollars]	Size of federally funded R&D program									
				Less than \$200,000		\$200,000 to \$999,999		\$ 1 million to \$9.9 million		\$ 10 million to \$99.9 million		\$100 million or more	
				Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by industry:													
All industries	21-23, 31-33, 42, 44-81	3,212	16,899	1,145	105	1,547	578	401	1,183	103	2,254	21	12,780
Manufacturing	31-33	917	11,484	497	50	294	126	93	222	21	587	16	10,499
Food	311	0	0	0	0	0	0	0	0	0	0	0	0
Beverage and tobacco products	312	0	0	0	0	0	0	0	0	0	0	0	0
Textiles, apparel, and leather	313-16	1	(D)	0	0	0	0	1	(D)	0	0	0	0
Wood products	321	0	0	0	0	0	0	0	0	0	0	0	0
Paper, printing and support activities	322, 323	1	(D)	0	0	0	0	0	0	1	(D)	0	0
Petroleum and coal products	324	3	(D)	2	(D)	0	0	1	(D)	0	0	0	0
Chemicals	325	117	180	102	(D)	6	3	7	25	1	(D)	1	(D)
Basic chemicals	3251	111	42	100	(D)	6	3	4	12	1	(D)	0	0
Resin, synthetic rubber, fibers, and filament	3252	3	(D)	0	(D)	0	0	3	13	0	0	0	0
Pharmaceuticals and medicines	3254	0	0	0	0	0	0	0	0	0	0	0	0
Other chemicals	325 minus (3251-52, 3254)	3	(D)	2	(D)	0	0	0	0	0	0	1	(D)
Plastics and rubber products	326	1	(D)	1	(D)	0	0	0	0	0	0	0	0
Nonmetallic mineral products	327	101	11	101	11	0	0	0	0	0	0	0	0
Primary metals	331	5	6	1	(D)	2	(D)	2	(D)	0	0	0	0
Fabricated metal products	332	18	54	8	1	7	3	2	(D)	1	(D)	0	0
Machinery	333	109	67	0	0	103	27	0	(D)	2	(D)	0	0
Computer and electronic products	334	366	5,848	123	20	170	89	61	119	6	187	6	5,432
Computers and peripheral equipment	3341	2	(D)	0	0	0	0	1	(D)	1	(D)	0	0
Communications equipment	3342	7	298	0	0	1	(D)	2	(D)	3	136	1	(D)
Semiconductor and other electronic components	3344	20	148	0	0	17	13	2	(D)	0	0	1	(D)
Navigational, measuring, electromedical, and control instruments	3345	336	5,382	123	20	151	(D)	56	100	2	(D)	4	5,151
Other computer and electronic products	334 minus (3341-42, 3344-45)	1	(D)	0	0	1	(D)	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	67	301 (S)	51	7	1	(D)	11	37	3	63	1	(D)
Transportation equipment	336	21	4,961	0	0	2	(D)	6	(D)	5	186	8	4,749

See explanatory information and SOURCE at end of table.

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				Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by industry:													
Motor vehicles, trailers, and parts	3361-63	8	(D)	0	0	1	(D)	5	16	1	(D)	1	(D)
Aerospace products and parts	3364	12	3,785	0	0	1	(D)	1	(D)	3	74	7	3,701
Other transportation equipment	336 minus (3361-64)	1	(D)	0	0	0	0	0	0	1	(D)	0	(D)
Furniture and related products	337	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	107	25	101	0	2	(D)	2	3	2	(D)	0	0
Medical equipment and supplies	3391	105	(D)	101	0	1	(D)	2	3	1	(D)	0	0
Other miscellaneous manufacturing	339 minus (3391)	2	(D)	0	0	1	(D)	0	0	1	(D)	0	0
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--	--	--	--	--	--	--
Nonmanufacturing	21-23, 42, 44-81	2,295	5,415	648	55	1,253	451	308	961	82	1,666	5	2,281
Mining, extraction, and support activities	21	2	(D)	1	(D)	1	(D)	0	0	0	0	0	0
Utilities	22	51	19	48	1	2	(D)	0	0	1	(D)	0	0
Construction	23	50	1	50	0	0	0	0	0	0	0	0	0
Trade	42, 44, 45	255	88	0	0	250	65	4	(D)	1	(D)	0	0
Transportation and warehousing	48, 49	253	72	2	(D)	250	62	0	0	1	(D)	0	0
Information	51	59	(D)	50	8	2	(D)	4	(D)	3	60	0	0
Publishing	511	56	44	50	8	2	(D)	3	15	1	(D)	0	0
Newspaper, periodical, book, and database	5111	0	0	0	0	0	0	0	0	0	0	0	0
Software	5112	56	44	50	8	2	(D)	3	15	1	(D)	0	0
Broadcasting and telecommunications	513	1	(D)	0	0	0	0	0	0	1	(D)	0	0
Radio and television broadcasting	5131	0	0	0	0	0	0	0	0	0	0	0	0
Telecommunications	5133	1	(D)	0	0	0	0	0	0	1	(D)	0	0
Other broadcasting and telecommunications	513 minus (5131, 5133)	0	0	0	0	0	0	0	0	0	0	0	0
Other information	51 minus (511, 513)	2	(D)	0	0	0	0	1	(D)	1	(D)	0	0
Finance, insurance, and real estate	52, 53	1	(D)	0	0	0	0	0	0	1	(D)	0	0
Professional, scientific, and technical services	54	1,318	5,065	294	35	648	293	298	927	73	1,529	5	2,281

See explanatory information and SOURCE at end of table.

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Distribution by industry:													
Architectural, engineering, and related services	5413	109	1,021	6	0	8	4	77	(D)	16	422	2	(D)
Computer systems design and related services	5415	91	498	9	1	23	9	33	146	27	343	0	0
Scientific R&D services	5417	817	3,352	280	34	317	88	187	610	30	763	3	1,857
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	301	(D)	0	0	300	(D)	1	(D)	0	0	0	0
Management of companies and enterprises	55	0	0	0	0	0	0	0	0	0	0	0	0
Health care services	621-23	104	29	52	(D)	50	12	1	(D)	1	(D)	0	0
Other nonmanufacturing	56, 61, 624, 71, 72, 81	202	38	150	(D)	50	17	1	(D)	1	(D)	0	0
Distribution by size of company: [Number of employees]													
Total		3,212	16,899	1,140	105	1,547	578	401	1,183	103	2,254	21	12,780
5 to 24		1,969	653	606	68	1,284	463	79	122	0	0	0	0
25 to 49		268	201	168	11	27	18	73	173	0	0	0	0
50 to 99		306	548	52	5	130	51	117	371	7	122	0	0
100 to 249		333	903	144	10	72	30	76	327	41	537	0	0
250 to 499		99	560	51	2	13	6	18	73	17	479	0	0
500 to 999		128	627	104	(D)	2	1	8	35	12	461	1	(D)
1,000 to 4,999		41	608	8	1	11	(D)	12	25	8	170	2	(D)
5,000 to 9,999		22	1,651	5	1	4	2	6	21	4	125	3	1,502
10,000 to 24,999		15	904	2	(D)	1	(D)	3	11	6	128	3	765
25,000 or more		31	10,243	0	0	3	1	8	24	8	232	12	9,986

<sup>1</sup> Beginning with 2001, statistics for total and Federally funded industrial R&D exclude data for Federally Funded Research and Development Centers (FFRDCs).

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.  
(S) = Indicates imputation of more than 50 percent.  
(-) = Indicates data not collected.

NOTE: Starting in 1999, the frame from which the statistical samples were selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, in prior reports detailed industry statistics were published only from the large company partition; detailed industry statistics from the small company partition were not. Statistics from the small company partition were included in the manufacturing, nonmanufacturing, and all industries totals, but were aggregated into "small manufacturing" and "small nonmanufacturing" classifications instead of being included in their respective industry classifications. For this report, this practice was evaluated and discontinued because it was determined that the data for small companies are more useful if they are included in their respective industries even given the sampling concerns described above. Consequently, the "small manufacturing" and "small nonmanufacturing" stublines are no longer present. Statistics for the firms in the small company classifications are not shown separately in this table, but are included in the manufacturing, nonmanufacturing, and all industries totals. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at <http://www.nsf.gov/sbe/srs/sird/start.htm>.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2001